

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1305788

Luminaire Tested: P3SQASS09R459024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS09R459024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

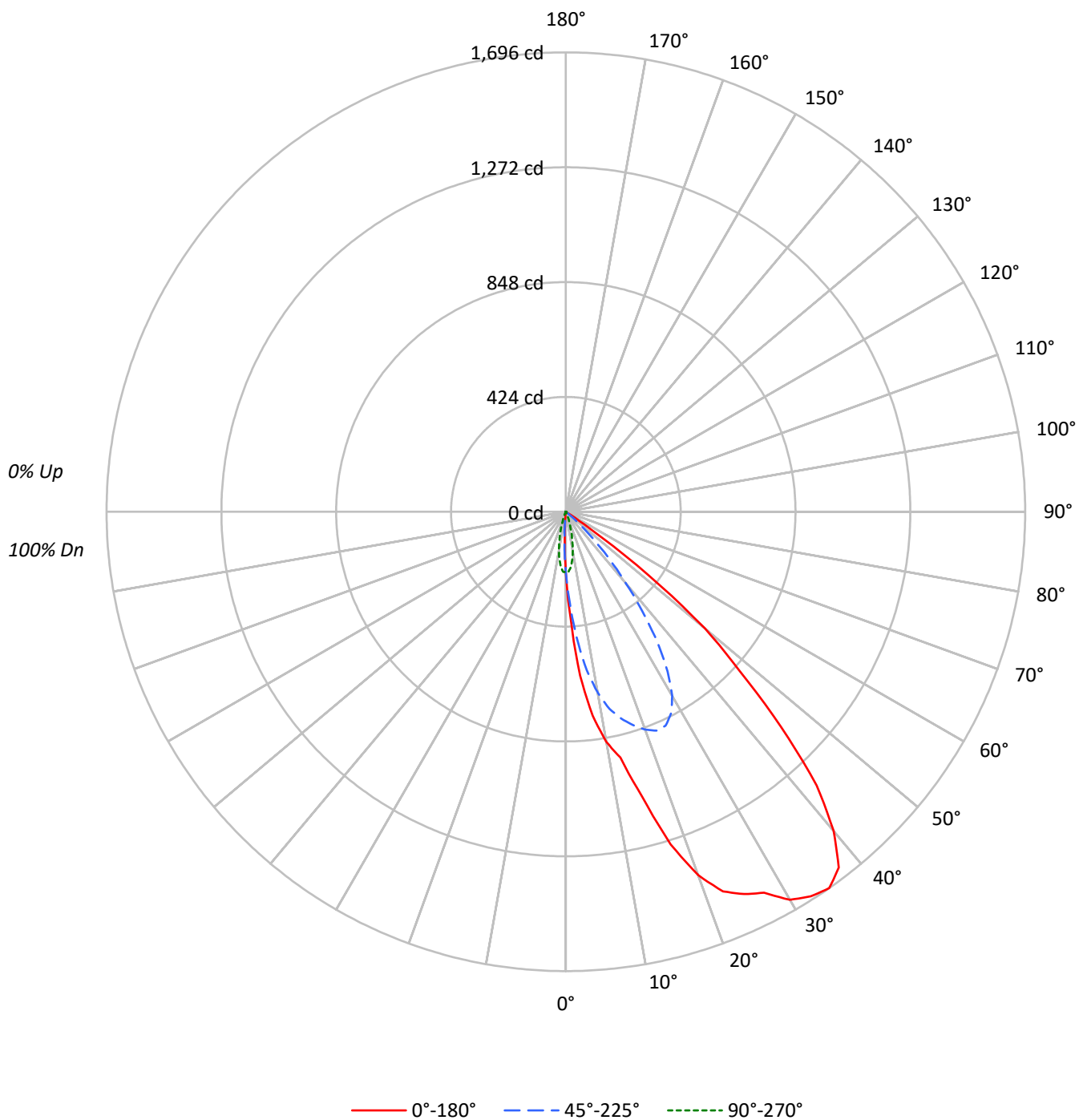
Lumens per Lamp: N/A
Luminaire Lumens: 719.0 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38457	38457	38457	38457	38457
5°	104990	80787	35596	7140	2680
10°	150781	118516	25725	682	560
15°	194131	140962	13693	232	0
20°	261644	156847	5205	0	0
25°	295929	165684	1349	0	0
30°	328944	156189	119	0	0
35°	356597	124570	0	0	0
40°	345617	78215	0	0	0
45°	273980	37265	0	0	0
50°	179326	4662	0	0	0
55°	30807	0	0	0	0
60°	0	0	207	0	0
65°	0	245	245	0	0
70°	0	302	655	0	0
75°	0	399	865	0	0
80°	0	595	1289	595	0
85°	0	1186	2569	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 273980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	3.7
10°-20°	102.4	14.2
20°-30°	191.7	26.7
30°-40°	223.8	31.1
40°-50°	146.0	20.3
50°-60°	27.1	3.8
60°-70°	0.2	0.0
70°-80°	0.5	0.1
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	320.8	44.6
0°-40°	544.6	75.7
0°-60°	717.6	99.8
0°-90°	719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	719.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	223	223	223	223	223	
5°	607	467	206	41	16	65
15°	1089	791	77	1	0	324
25°	1557	872	7	0	0	720
35°	1696	592	0	0	0	1040
45°	1125	153	0	0	0	855
55°	103	0	0	0	0	178
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3
2.5°	393.7	396.9	390.5	387.9	379.5	381.4	367.2	361.4	352.4	337.5	330.4
5°	607.3	601.5	596.3	585.4	578.9	561.5	542.1	520.2	493.7	467.3	436.9
7.5°	759.6	755.1	753.2	744.1	731.2	713.1	688.0	660.2	626.0	590.5	544.7
10°	862.2	857.7	850.0	840.9	830.6	815.8	791.2	760.9	723.5	677.7	624.1
12.5°	929.4	928.7	915.8	905.5	892.6	879.7	854.5	830.0	793.2	746.1	685.4
15°	1088.8	1078.4	1061.7	1032.6	996.5	962.9	922.3	883.5	843.5	790.6	722.8
17.5°	1287.5	1275.9	1247.5	1210.7	1152.7	1088.8	1019.1	957.7	897.7	826.1	746.1
20°	1427.6	1423.1	1399.2	1356.6	1294.6	1210.1	1118.4	1032.0	947.4	855.8	757.0
22.5°	1517.3	1514.7	1505.0	1476.0	1412.7	1317.9	1199.8	1083.6	981.6	874.5	753.8
25°	1557.3	1560.5	1561.8	1547.6	1496.6	1399.8	1259.8	1123.0	1001.0	871.9	729.3
27.5°	1585.7	1585.7	1590.9	1584.4	1532.8	1430.8	1283.0	1136.5	994.5	840.3	677.7
30°	1654.1	1652.8	1656.1	1638.6	1567.0	1440.5	1272.7	1114.6	957.7	785.4	603.4
32.5°	1683.8	1685.1	1684.4	1656.7	1573.4	1434.0	1247.5	1072.6	890.0	699.6	505.3
35°	1696.1	1690.3	1666.4	1603.1	1497.9	1348.2	1176.5	1001.6	795.1	592.5	398.8
37.5°	1655.4	1638.6	1585.7	1499.2	1370.8	1226.9	1059.1	874.5	669.3	464.7	300.1
40°	1537.3	1515.4	1448.9	1344.3	1226.9	1097.2	920.3	725.4	523.4	347.9	210.4
42.5°	1370.1	1345.0	1273.3	1182.3	1075.2	939.0	762.8	567.9	383.4	240.1	133.6
45°	1124.9	1110.7	1069.4	992.6	887.4	746.1	584.7	414.3	265.3	153.0	68.4
47.5°	870.0	851.9	822.2	769.3	681.5	547.3	409.2	281.4	170.4	75.5	14.2
50°	669.3	648.0	611.8	553.1	461.4	365.3	265.3	175.5	86.5	17.4	0.6
52.5°	385.3	389.8	372.4	335.0	284.0	218.8	153.6	88.4	19.4	0.6	0.0
55°	102.6	111.0	108.4	116.8	102.6	86.5	63.9	16.8	1.3	0.0	0.0
57.5°	0.0	0.0	0.6	1.3	3.9	5.8	1.9	0.6	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3
2.5°	314.3	300.7	284.0	222.0	167.2	120.0	93.6	86.5
5°	407.9	375.0	332.4	205.9	103.3	41.3	18.7	15.5
7.5°	496.3	447.9	371.1	180.1	52.3	10.3	5.2	4.5
10°	564.7	499.5	399.5	147.1	19.4	3.9	3.2	3.2
12.5°	611.8	532.4	409.8	111.7	7.1	1.9	1.9	1.3
15°	638.9	545.3	400.1	76.8	2.6	1.3	0.0	0.0
17.5°	647.3	540.2	374.3	48.4	0.6	0.0	0.0	0.0
20°	640.2	515.0	333.7	28.4	0.0	0.0	0.0	0.0
22.5°	617.0	475.6	284.6	15.5	0.0	0.0	0.0	0.0
25°	573.7	420.1	227.2	7.1	0.0	0.0	0.0	0.0
27.5°	503.4	348.5	171.0	2.6	0.0	0.0	0.0	0.0
30°	423.4	271.7	121.3	0.6	0.0	0.0	0.0	0.0
32.5°	330.4	200.1	78.1	0.0	0.0	0.0	0.0	0.0
35°	248.5	140.0	46.5	0.0	0.0	0.0	0.0	0.0
37.5°	173.0	88.4	24.5	0.0	0.0	0.0	0.0	0.0
40°	107.8	47.8	8.4	0.0	0.0	0.0	0.0	0.0
42.5°	60.0	16.8	0.6	0.0	0.0	0.0	0.0	0.0
45°	14.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
70°	0.6	0.6	0.6	1.3	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	1.3	1.3	0.6	0.0	0.0	0.0
75°	0.6	0.6	1.3	1.3	0.6	0.0	0.0	0.0
77.5°	0.6	1.3	1.3	1.3	0.6	0.6	0.0	0.0
80°	0.6	1.3	1.3	1.3	1.3	0.6	0.0	0.0
82.5°	0.6	1.3	1.3	1.3	1.3	0.6	0.0	0.0
85°	0.6	1.3	1.3	1.3	0.6	0.6	0.0	0.0
87.5°	0.6	1.3	1.3	1.3	1.3	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)